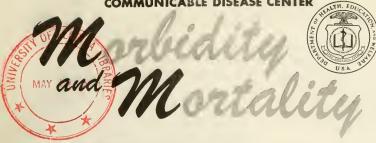


COMMUNICABLE DISEASE CENTER





Week Ending April 23, 1966

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

EPIDEMIOLOGIC NOTES AND REPORTS HUMAN RABIES - Colorada

The first case of human rabies reported in Colorado since 1931 died in Fitzsimons General Hospital, Denver, Colorado, on April 2, 1966.

The patient was an 11-year-old girl who lived with her parents at Widefield, a community about 7 miles southeast of Colorado Springs, and who had not been out of the general area for the past year. On March 23 she became ill with fever, sore throat, and "runny" nose; the following day she was kept home from school. On March 25 she seemed better and returned to school, but that evening she experienced severe sore throat,

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muscular pains, profuse vomiting, and she refused food and liquids. The same symptoms persisted on March 26 and 27, and on March 28 the patient was taken to Ft. Carson where a tentative diagnosis of viral gastroenteritis was made. On the way home she lapsed into coma and later in the evening evidenced spasmodic

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

	16th WEEF	ENDED	MEDIAN	CUMULATIVE, FIRST 16 WEEKS			
DISEASE	APRIL 23, 1966	APRIL 24, 1965	1961 – 1965	1966	1965	MEDIAN 1961 — 1965	
Aseptic meningitis	20	17	28	443	454	389	
Brucellosis	6	7	9	59	63	110	
Diphtheria	10	2	8	50	69	100	
Encephalitis, primary:							
Arthropod-borne & unspecified	31	30		393	478		
Encephalitis, post-infectious	25	19		271	238		
Hepatitis, serum Hepatitis.	30 644	695	845	399 11.063	12,405	16,334	
Measles (rubeola)	8,514	11,832	17.460	117.800	151,426	200.921	
Poliomyelitis, Total (including unspecified)	0,011	11,002	3	7	6	44	
Paralytic	_	_	3	6	4	39	
Nonparalytic	_	_		_	2		
Meningococcal infections, Total	98	67	52	1.632	1.382	944	
Civilian	91	62		1,427	1,261		
Military	7	5		205	121		
Rubella (German measles)	1.792			22,613			
Streptococcal sore throat & Scarlet fever	10,808	9,717	8,238	186,513	177,503	154,383	
Tetanus	6	7		34	60		
Tularemia	_	1		47	58		
Typhoid fever	7	4	7	83	102	113	
Typhus, tick-borne (Rky. Mt. Spotted fever).	_	_		9	6		
Rabies in Animals	113	148	112	1,402	1,689	1,336	

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum		Cum.	
Anthrax:				
Leptospirosis:	9	Trichinosis: NY Upstate-1, Ohio-1	35	1
Maiaria: Va2	86	Rabies in Man:	1	ı
Psittacosis:	16	Rubella, Congenital Syndrome:	10	П
Typhus, murine:	6			

EPIDEMIOLOGIC NOTES AND REPORTS HUMAN RABIES - Colorodo (Continued)

contractions of the mouth muscles, severe salivation and convulsive seizures. She was transferred to Fitzsimons General Hospital in Denver on March 29 in coma, where, late in the afternoon, she became cyanotic and had respiratory failure. Mouth to mouth resuscitation being unsuccessful, she was placed in a respirator.

The patient expired at 6:00 p.m., April 2, and an autopsy was performed early. Brain material was positive for rabies by impression smears and by fluorescent antibody technique. Further laboratory studies are in progress but have not yet been completed.

There is no known exposure to a rabid animal in this case. The local health department has said there is some evidence that the child was bitten by a dog 10 months ago, but there is no valid history of this and the animal was neither quarantined nor examined for rabies.

North Carolina.....

South Carolina.....

Ceorgia.....

Florida.....

78

149

68

Two cases of animal rabies have been reported from El Paso County during 1966, one in a cat and one in a skunk. The last previous rabies reported from the County was in 1960 when there were three cases.

Due to the prevalence of stray dogs and cats in the general area of Colorado Springs, a rabies quarantine covering the southern half of El Paso County was declared early in March 1966. This quarantine has since been extended to cover the entire county; an animal vaccination campaign was initiated at the time quarantine was started in March. Stray dogs and cats are being destroyed.

(Reported by Dr. C. S. Mollohan, Chief, Section of Epidemiology, Dr. R. L. Cleere, Director of Public Health, and Dr. M. D. Baum, Chief, Veterinary Section, Division of Preventive Medical Services, all of the Colorado State Department of Public Health.)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

MARCH 1966 AND MARCH 1965

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas March 1966 and March 1965 - Provisional Data

Reporting Area	Marc	h	Cumul Jan	ative Mar	Reporting Area	Marc	h	Cumu] Jan	lative Mar
the borrering in the	1966	1965	1966	1965		1966		1966	1965
NEW ENCLAND	43	48	141	126	EAST SOUTH CENTRAL	199	207	574	619
Maine	1	-	2	1	Kentucky	13	12	37	42
New Hampshire	1	1	4	5	Tennessee	28	46	78	150
Vermont	1	_	1	-	Alabama	108	104	292	315
Massachusetts	31	34	96	74	Mississippi	50	45	167	112
Rhode Island	1	1	5	7					
Connecticut	8	12	33	39	WEST SOUTH CENTRAL	222	192	665	577
	_				Arkansas	19	19	53	53
MIDDLE ATLANTIC	432	411	1,113	1,178	Louisiana	79	42	175	161
Upstate New York	47	49	108	133	Oklahoma	10	13	41	42
New York City	280	249	709	719	Texas	114	118	396	321
Pa. (Excl. Phila.)		16	62	45		114	110	1 370	322
Philadelphia		17	67	56	MOUNTAIN	28	51	94	159
New Jersey	60	80	167	225	Montana	5	2	10	5
nes octocy	00	80	107	223	Idaho			10	1
EAST NORTH CENTRAL	246	274	734	734] _	1
Ohio		54	139	151	Wyoming	4	1	13	6
Indiana		2	18	14	Colorado		_		31
Downstate Illinois	16	3			New Mexico	6	10	22	90
Chicago		11	52	52	Arizona	10	32	43	
		147	259	316	Utah	2	1	4	8
Michigan	70	52	240	188	Nevada	1	5	2	18
Wisconsin	2	8	26	13	1				
THOSE MODERN CONTRACT					PACIFIC	123	201	457	529
WEST NORTH CENTRAL		51	131	117	Washington	7	5	15	25
Minnesota		15	7	24	Oregon	6	2	11	10
Iowa		3	22	7	California	105	192	422	485
Missouri	14	24	60	57	Alaska	-	1	2	3
North Dakota	-	-	4	-	Hawaii	5	1	7	6
South Dakota	3	5	16	13					
Nebraska		4	10	11	U. S. TOTAL	1,837	2,012	5,473	5,751
Kansas	2	-	12	5		0.2	7/		100
					TERRITORIES	83	74	245	198
SOUTH ATLANTIC		577	1,564	1,712	Puerto Rico	82	74	241	197
Delaware		3	6	14	Virgin Islands	1	-	4	1
Maryland	55	39	134	108					
District of Columbia	43	54	111	133					
Virginia	30	21	75	92					
West Virginia	3	4	18	13					
Month Con-17	77								

Note:

214

278

605

Cumulative Totals include revised and delayed reports through previous months.

SURVEILLANCE SUMMARY TUBERCULOSIS MORTALITY IN THE UNITED STATES, 1964

According to the final figures recently released by the National Center for Health Statistics, 8,303 deaths from tuberculosis were reported in the United States during 1964 compared to 9,311 deaths in 1963. The classification of the tuberculosis deaths in 1964, by form of disease and by sex and race of the patients, is set out in Table 1.

The decrease of 1,008 deaths from 1963 to 1964 represents the largest annual decline (10.8 percent) in tuberculosis mortality recorded since 1954. The trend of the tuberculosis death rates from 1940 to 1964 is shown in Figure 1. In 1954, the mortality rate for the United States, including the States of Alaska and Hawaii, was 10.2 per 100,000 population (16,527 deaths), whereas in 1964 the rate was 4.3 per 100,000 population (8,303 deaths).

Much of this improvement in tuberculosis mortality in the United States is attributed to the widespread use, since the early 1950's, of chemotherapeutic drugs in the care and treatment of tuberculosis. Similar changes have been reported for many other countries throughout the world.

(Reported by the Statistical Unit, Tuberculosis Branch, CDC.)

Figure 1
TUBERCULOSIS DEATH RATES
CONTINENTAL UNITED STATES
1940 through 1964

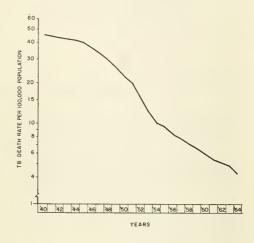


Table 1
Tuberculosis Mortality, United States, 1964

Color		Deaths		Rates/100,000 Population					
Sex	Respiratory	Other Forms	Total	Respiratory	Other Forms	Total			
White									
Male	4,292	236	4,528	5.2	0.3	5.5			
Female	1,419	145	1,564	1.6	0.2	1.8			
Total	5,711	381	6,092	3.4	0.2	3.6			
Non-white									
Male	1,371	156	1,527	12.5	1.4	13.9			
Female	564	120	684	4.9	1.0	5.9			
Total	1,935	276	2,211	8.6	1.2	9.8			
All Races									
Male	5,663	392	6,055	6.0	0.4	6.4			
Female	1,983	265	2,248	2.0	0.3	2.3			
Total	7,646	657	8,303	4.0	0.3	4.3			

RECOMMENDATIONS OF THE PUBLIC HEALTH SERVICE ADVISORY COMMITTEE ON IMMUNIZATION PRACTICE

At its meeting of February 18, 1966, the Public Health Service Advisory Committee on Immunization Practice issued two statements. The first deals with measles vaccines and is a revision of the initial recommendations which appeared in the MMWR, Vol. 14, No. 7 (February 20, 1965) and No. 36 (September 11, 1965). The second statement deals with the current status of methodology in the prevention of transfusion-associated hepatitis.

I. MEASLES VACCINES - STATUS AND RECOMMENDATIONS FOR USE

Highly effective, safe vaccines are available for eliminating measles in the United States. Virtually all children will at some time have clinically evident measles unless protected by vaccine. Measles is often a severe disease and is of particular concern because of frequent complications including broncho-pneumonia, middle ear infection and encephalitis. Moreover, the encephalitis which follows measles approximately once per 1,000 cases often results in permanent brain damage and subsequent mental retardation. An average of one measles death occurs in every 10,000 cases.

All susceptible children by virtue of not having had natural measles or measles vaccine should be immunized. Programs directed toward vaccinating children at about one year of age should be established by all communities. Also of particular importance is the immunization of susceptible children entering nursery school, kindergarten and elementary school, since they are often responsible for transmission of measles to other children in the community.

A. Live Attenuated Measles Virus Vaccines (Edmanstan and Schwarz Strains)

Live attenuated measles virus vaccines prepared from the Edmonston strain or Schwarz (further attenuated) strain are available for use in the United States. The Edmonston strain is propagated in either chick embryo or canine kidney cell cultures and may be given alone or simultaneously with Measles Immune Globulin according to manufacturers' directions. The Schwarz strain is prepared only in chick embryo cell culture and is suitable for administration without Measles Immune Globulin. The live attenuated measles virus vaccines produce a mild or inapparent, non-communicable infection. Fifteen percent of those receiving either Edmonston strain with Measles Immune Globulin, or Schwarz strain, may experience fever

of 103°F (rectal) or greater, beginning about the sixth day and lasting no longer than five days. Edmonston strain alone may have about twice the frequency of such responses. However, the great majority of reports indicate that even children with high fever experience relatively little discomfort or minimal toxicity and reactions often go unnoticed by the parents.

An antibody response develops in virtually all susceptible children given live attenuated measles virus vaccines. The level and persistence of antibody induced by Edmonston strain administered alone is similar to that seen following regular measles. Antibody titers attained following Edmonston strain with Measles Immune Globulin or following Schwarz strain are slightly lower. However, with all three vaccine schedules, protection against naturally occurring measles appears to be long lasting.

On the basis of experience with more than 10 million doses administered in the United States, live attenuated measles virus vaccine appears to be one of the safest immunizing agents in use. To date, serious reactions associated with the live attenuated measles virus vaccines have been very rare. In some few instances, febrile convulsions without known sequelae, have been recorded.

B. Inactivated Measles Virus Vaccines

Inactivated vaccines derived from Edmonston strain measles virus and prepared in either chick embryo or monkey kidney cell cultures are available. These vaccines are administered in a three dose schedule at monthly intervals with subsequent boosters. Reactions are not more frequent than after administration of diphtheria and tetanus toxoids.

Following the primary immunization with inactivated measles virus vaccines, the protection achieved has been

satisfactory for the first few months, but has been shown to decline rapidly thereafter. In view of the greater efficacy and the safety of live attenuated measles virus vaccines, inactivated vaccines are not recommended except in those instances where the use of live vaccines is contraindicated.

Combined schedules employing inactivated vaccines followed by live vaccines have been used (Table 2). However, there are not sufficient advantages to recommend the use of these schedules; and, furthermore, there have been preliminary observations of untoward local tissue reactions when live attenuated measles virus vaccines have been administered to individuals previously immunized with inactivated measles vaccines.

C. Recommendations for Voccine Use

1) Age

Vaccine is indicated primarily for children who have not had measles. For maximum efficacy, live attenuated measles virus vaccines should be administered to those at least 12 months of age. However, they may be given to infants 9-12 months of age with the realization that there may be a slight reduction in efficacy, particularly if Measles Immune Globulin is administered with the vaccine. Vaccination of adults at the present time is rarely necessary because most individuals are serologically immune by age 15. Limited data indicate that in the adult, reactions to vaccine are no more common than in children.

2) High Risk Groups

Immunization against measles is particularly important for children with chronic illnesses such as heart disease, cystic fibrosis, and chronic pulmonary diseases and, indeed, for any individual prone to serious complications following natural measles.

3) Prevention of Notural Measles Following Exposure

If administered up to and including the day of exposure to natural measles, live attentuated measles virus vaccines are usually effective in preventing disease. Limited studies reported to date indicate, however, that there is no protection conferred by the vaccines when given at longer intervals following exposure.

D. Community Immunization Programs

1) Ongoing Progroms

Universal immunization as part of good health care should be accomplished through routine and intensive programs conducted in physicians' offices and public health clinics. Programs aimed at immunizing children at about one year of age should be established by all communities. In addition, susceptible children entering

nursery school, kindergarten and elementary school should receive vaccine because of their particular role in community spread of natural measles.

2) Community-wide Moss Progroms

Mass immunization programs may be useful to supplement the ongoing administration of live attenuated measles virus vaccine in communities or segments of communities in which the proportion of individuals so protected is known to be low. However, the following points should be considered in a community-wide mass immunization program:

a. The active cooperation of as many physicians as possible in addition to the official health agencies normally concerned with the care of children is important.

b. Since live attenuated measles virus vaccines are administered parenterally, an adequate number of medical and nursing personnel are required.

c. Despite the acknowledged high incidence of measles and its frequent, serious complications, substantial effort may be required to achieve complete community support.

d. Since measles vaccine is contraindicated in some children, preliminary screening to identify such individuals is desirable in mass measles immunization programs and should be provided where capability exists.

e. Although a number of children may have febrile reactions following live attenuated measles virus vaccine, experience in community-wide campaigns and in private medical practice indicates that only a small fraction of these reactions requires medical attention. Parents should be made aware of the reasonable expectations of such reactions in order that no undue concern develops after the program is underway.

3) Control of Measles Epidemics

Measles surveillance can pinpoint potential outbreaks in ample time to institute effective control. Several studies have shown that measles epidemics can be curtailed or halted by vaccination of selected groups of children in a community, particularly the susceptibles in nursery school, kindergarten and the first two or three grades of elementary school. However, once measles is widely disseminated in a community, it may be necessary to immunize susceptible children of all ages in order to alter the course of an epidemic.

E. Immunization Schedules

Recommended immunization schedules are shown in Table 2, page 139.

F. Precautions in the Use of Live Attenuated Measles

1) Severe Febrile IIInesses

Vaccination should be postponed.

2) Tuberculasis

Exacerbations of tuberculosis by natural measles infection have been noted, and by analogy might theoretically accompany infection with live attenuated measles viruses. (An observed basis of similarity between the natural and attenuated viruses is their ability to suppress tuberculin skin test positivity.) Therefore, individuals with active tuberculosis should be under treatment when live attenuated measles virus vaccines are given. Although tuberculin skin testing prior to age one year is desirable as part of ideal health care for individual patients, it should not be a routine prerequisite in community measles immunization programs. For children included in these programs, the risk from natural measles often far outweighs the theoretical hazards of possible exacerbation of undiagnosed tuberculosis.

3) Recent Immune Glabulin Administration

Following the administration of more than 0.01 ml/pound of immune globulin, immunization should be deferred from six weeks to three months depending on the relative dosage administered, since the persistence of measles antibody in the globulin may interfere with response to to the vaccine.

4) Marked Hypersensitivity to Vaccine Campanents

Measles vaccines produced in chick embryo cell cultures should not be given to children sensitive to egg protein as indicated by their inability to eat eggs or egg products. Similarly, vaccines produced in canine cell cultures should not be administered to children highly sensitive to dog hair or dog dander.

5) Cancurrent Use of Live Attenuated Measles Virus Vaccines With Other Live Virus Vaccines

Theoretical possibilities of superimposed reactions and suppressed antibody responses have led to general acceptance of the desirability of not administering more than one live antigen at a time when they can efficiently be given separately. Ideally, primary oral poliomyelitis immunization should be completed prior to the time indicated for measles vaccine and the two antigens separated

by at least one month. Since smallpox and measles vaccines may each produce febrile reactions, similarly, there is merit in administering them at different times. When combined administration is elected for reasons of patient inaccessibility or threat of concimitant exposures, current information from field investigations would suggest that results comparable to those following separate administration can be anticipated.

G. Cantraindications to Use of Live Attenuated Measles Virus Vaccines

If measles immunization is indicated for persons with diagnoses listed in the following three groups, inactivated measles vaccine should be used.

1) Leukemia, Lympamas and Other Generalized Malignancies

Although there are no reports of unusual complications of vaccine administration in children with severe underlying diseases other than leukemia, it is conceivable on theoretical grounds that in such individuals, potentiation of the attenuated measles virus infection might occur.

2) Altered Resistance from Therapy with agents such as steroids, alkylating drugs, antimetabolites, and irradiation.

3) Pregnancy

Purely on speculative grounds, there is reluctance to risk fetal damage which might theoretically be related to attenuated measles virus infection.

H. Cantinued Surveillance

Intensive surveillance of measles and its complications is needed to appraise the effectiveness of national immunization programs. Such surveillance activities can delineate failures to achieve adequate levels of protection and the definition of groups in which epidemic control programs should be instituted.

Although more than 10 million doses of measles vaccine have been administered in the United States, continuous and careful review of adverse reactions is of utmost importance. All serious reactions should be carefully evaluated and reported in detail to local and State health officials. The Communicable Disease Center should maintain close surveillance of all such experiences.

II. PREVENTION OF TRANSFUSION-ASSOCIATED HEPATITIS

The risk of viral hepatitis following blood transfusion represents a serious and continuing problem. A number of reports indicate that the incidence of clinical hepatitis is greater among recipients of blood obtained from certain categories of donors. The risk also becomes greater as the number of transfusions increases. In addition, the

case-fatality rate of transfusion-associated hepatitis increases with advancing age.

Evidence has been advanced both for and against the effectiveness of immune globulin in the prophylaxis of transfusion-associated hepatitis. Although the administration of immune globulin in a dose of 10 ml at the time

of the transfusion and again one month later has been reported by some investigators to be effective in reducing the number of cases, evidence of the efficacy of this procedure is lacking in other carefully conducted trials. In view of these uncertainties, existing data do not provide a basis for allocating supplies of immune globulin for its routine administration to recipients of blood transfusions.

Several methods for lowering the incidence of transfusion-associated hepatitis are available. More attention should be directed toward enforcement of adequate standards of donor quality, development of central registries for the identification of known or suspect carriers, and encouraging the practice of using blood and potentially icterogenic blood products only when necessary.

Table 2

IMMUNIZATION SCHEDULES FOR MEASLES VACCINES

Schedule	Type of Vaccine	Age	Doses* and Administration	Comments
1	Live attenuated measles virus vaccine (Edmonston Strain)	12** Months and Older	1	Although the live attenuated measle virus vaccine may be administered safely with or without Measles Immune Globulin, many physicians
2	Live attenuated measles virus vaccine (Edmonston Strain) plus Measles Immune Globulin	12** Months and Older	1 plus Measles Immune Globulin (.01 ml per lb. at different site with different syringe)	will wish to give the two simultane- ously because of the lessened frequency of clinical reactions.
3	Live "further attenuated" measles virus vaccine (Schwarz Strain)	12** Months and Older	1	Clinical reactions approximate those observed in schedule 2; Measles Immune Globulin is not recommended with this vaccine.
4	Inactivated Vaccine	Any Age	3 (monthly intervals) plus a booster dose at one year	In view of the rapid fall-off in antibody and evidence of decreasing immunity following a primary immunization series, use of this vaccine is not recommended except for special groups in which live attenuated measles virus vaccine is contraindicated.
5	5 Inactivated vaccine followed by live attenuated measles virus vaccine	12 Months and Older	1 dose inactivated vaccine followed in 1 to 3 months by 1 dose live attenuated measles virus vaccine	The preceding administration of inactivated vaccine serves to reduce the frequency and severity of clinical reactions following live attenuated
	Under 12 Months	3 doses inactivated vaccine at monthly intervals followed by 1 dose live attenuated measles virus vaccine at 12 months or older.	measles virus vaccine administratio Local tissue reactions have been noted in some instances.	

^{*}Manufacturers' directions regarding volume of dose should be followed.

^{**}May be given to infants between 9 months and 1 year with the expectation of slightly decreased efficacy especially if administered simultaneously with Measles Immune Globulin.

Morbidity and Mortality Weekly Report

cases of specified notifiable diseases: united states $\mbox{for Weeks ended}$

APRIL 23, 1966 AND APRIL 24, 1965 (16th WEEK)

					ENCEPHAL	ITIS			HEPATITIS			
AREA			BRUCELLOSIS	Prim inclu unsp.	ding	Post- Infectious			Serum	Infectious	Both Types	
	1966	1965	1966	1966	1965	1966	1966	1965	1966	1966	1965	
UNITED STATES	20	17	6	31	30	25	10	2	30	644	695	
THE PART AND	1	_	,		,							
NEW ENGLAND	1	-	1	2	1	2		-	1	35	41	
Maine	-		_					-	-	3	14	
New Hampshire		_		-	-			-	-	1	3	
Vermont	_	-			-						1	
Massachusetts		-	1	2	1	1	-	-	1	27	15	
Rhode Island	1		1			- 1		-	-		3	
Connecticut	-	-	-	-	-	1	-	-	-	4	5	
MIDDLE ATLANTIC	2	2	_	10	10	4	-	_	1,	0.5	101	
MIDDLE ATLANTIC	2	3	_	1	4	4		-	14	85	124	
New York City	-	2	_	4	2			-	11	8	21	
New York, Up-State.	_		_		2	1 -	-	-	_	31	56	
New Jersey		1	-	5		3		-	2	19	18	
Pennsylvania	-	1	-	-	2	3	-	-	1	27	29	
CACT NODELL CENTERAL	3	2		5		,	_		,	0.0	1.5-	
EAST NORTH CENTRAL			-	3	2	4		-	4	92	137	
Ohio			-		-	-	-	-	2	30	30	
Indiana	- 1		-	1		-	-	-	-	11	8	
Illinois		2	-	-	1	7 1	-	-	-	4	28	
Michigan	3	-	-	1	1	4	-	-	2	41	60	
Wisconsin	-	-	-	-	-	-	-	-	-	6	11	
man wasaw anumni:												
VEST NORTH CENTRAL	-	-	2	-	1	-	-	-	-	39	65	
Minnesota	-	-	-	-	1	-	-	-	-	1	3	
Iowa	-	-	1	-	-	-	- 1	-	-	5	42	
Missouri	-	-	-	-	-	- 1	-	-	-	28	4	
North Dakota	-	-	-	-	-	- 1	-	-	-	2	-	
South Dakota	-	-	1	-	-	-	-	-	-	-	4	
Nebraska	-	-	-	-	-	-	-	-	-	-	1	
Kansas	-	-	-	-	-	- 1	-	-	-	3	11	
SOUTH ATLANTIC	2	4	-	5	5	1	-	1	1	91	61	
Delaware	-	-	-	-	-	-	-	-	-	-	1	
Maryland	- 1	-	-	-	3	_	_	-	-	31	8	
Dist. of Columbia		-	_	-	-		_ 1	_	_	-		
Virginia	_	-	_	1	_	_	-	_	1	8	22	
West Virginia				1 1	_		_	-	_	8	4	
North Carolina	2	1	_	4	1	_	_	-	_	12	5	
South Carolina			_		_	_		_	_	1	2	
Georgia	- 3	-	_		_	_	_	1	_	16	2	
Florida	- 1	3	-		1	1	-			15	17	
					1	1 1	_			15	17	
EAST SOUTH CENTRAL		1	1	1	1	3	1	_	_	81	38	
Kentucky	. 1	î	1 1		1							
Tennessee			1	1	1	3				35	8	
			1	1	1	3		-	-	17	14	
Alabama	-							-	-	19	11	
MISSISSIPPI	-	-	-		-	-	1	-	-	10	5	
JEST SOUTH CENTRAL	2	2	1	0	,							
VEST SOUTH CENTRAL	3	3	1	2	1	1	-	-	-	58	51	
Arkansas	1.0	1	-	2	1		-	-	-	9	3	
Louisiana	- 1	2	1		-	1		-	-	10	8	
Oklahoma					-	-		-	-	1		
Texas	3	1	-	-	-	-	-	-	-	38	40	
AOTHER & TAY												
MOUNTAIN	-	1	-	2	1	-	9	-	-	17	40	
Montana	-	-	-		-	-	9	-	-	3	2	
Idaho	-	-	-	-	-	-	-	-	-	2	3	
Wyoming	-	-	-	-	1	-	-	-	-	-	1	
Colorado	-	1	-	2	-	-	-	-	-	-	13	
New Mexico	-	-	-	-	-	-	-	-	-	6	9	
Arizona	-	-	-	-	-	-	- 1	-	-	3	5	
Utah	-	-	-	-	-	-	-	-	-	2	7	
Nevada	-	-	-	-	-	-	-	-	-	1	-	
					1							
PACIFIC	9	3	1	4	8	10	_	1	10	146	138	
Washington		-		-		-	- 1		-	13	5	
Oregon	-	_	-	1	_	-	-	_	_	18	7	
California	9	3	1	3	8	10	_	1	10	110	121	
Alaska	_	-		-	-	10		-	10	1	3	
Hawaii	-	-			-	_				4	2	
Puerto Rico				1								
	-	-	_	_	_		_	_	_	29	20	

1

Morbidity and Mortality Weekly Report

CASES OF SPECIFIFD NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED APRIL 23, 1966 AND APRIL 24, 1965 (16th WEEK) - CONTINUED

MENINGOCOCCAL INFECTIONS. MEASLES (Rubeola) RUBELLA TOTAL AREA 1966 1966 1966 1965 1966 1966 1965 1966 1966 1965 UNITED STATES... 8,514 117,800 151,426 98 1,382 6 1,792 NEW ENGLAND..... 81 1,399 28,388 70 2,083 Maine..... 154 8 New Hampshire 25 335 Vermont..... 204 493 Massachusetts.... 538 15,785 30 Rhode Island..... 61 3,094 Connecticut..... 31 417 6,598 115 MIDDLE ATLANTIC..... 13,786 6,368 9 176 181 87 New York City..... 228 6,948 687 25 32 2,063 New York, Up-State. 93 1,448 48 53 New Jersey..... 1,473 1,102 51 61 2 Pennsylvania..... 3 50 EAST NORTH CENTRAL ... 2,543 44,080 28,680 20 244 168 Ohio..... 484 3,750 5,893 6 67 Indiana...... 279 1,111 38 23 166 Illinois..... 8,804 1,060 46 79 7,188 15,370 Michigan..... 291 6 68 28 94 Wisconsin..... 1.256 21,565 5,246 25 23 WEST NORTH CENTRAL ... 390 5,505 11,626 87 Minnesota..... 99 1,337 369 Iowa,.... 223 3,005 6,419 13 113 Missouri..... 56 371 1,757 North Dakota..... 745 2,728 3 South Dakota..... 63 Nebraska.... 1.1. 290 6 Kansas..... NN NN NN 7 SOUTH ATLANTIC 628 9,082 17,265 19 263 276 139 Delaware..... 120 390 3 Maryland..... 66 1,375 646 25 26 Dist. of Columbia.. 307 4 Virginia..... 956 2,659 38 29 West Virginia..... 192 3,485 10,289 9 North Carolina.... 150 206 42 South Carolina.... 27 426 713 36 44 5 Georgia..... 478 3.5 Florida..... 2,086 1,857 52 71 88 EAST SOUTH CENTRAL ... 1,262 13,296 9,706 139 99 356 Kentucky..... 3,902 1,870 5 62 44 230 Tennessee..... 556 7,511 5,345 41 29 1,229 Alabama...... 451 1,744 4 27 Mississippi..... 43 654 747 6 3 15 WEST SOUTH CENTRAL . . . 1,249 13,790 21,447 15 247 224 Arkansas..... 50 425 832 13 Louisiana..... 7 68 54 95 126 Oklahoma..... 44 312 125 Texas..... 12,985 20,436 8 129 7.0 MOUNTAIN..... 176 635 6,548 11,868 56 49 Montana.... 123 990 2,794 11 Idaho..... 41 655 1,746 Wyoming..... 89 623 50 Colorado..... 39 680 2,555 32 New Mexico..... 465 469 Arizona..... 91 278 3,452 496 8 14 Utah..... 193 3,057 4 Nevada..... PACIFIC..... 1,075 10,314 16,078 347 240 264 Washington..... 1,852 61 4,800 85 20 Oregon..... 795 2,276 20 18 California...... 925 7,539 7,043 9 289 198 141 Alaska..... 58 106 14 4 1,853 6 Hawaii.....

2

Puerto Rico.....

89

1,485

1,052

3

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

APRIL 23, 1966 AND APRIL 24, 1965 (16th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	NUS	TULAR	EMIA	ТҮРН	OID	TYPHUS TICK- (Rky. Mt.	RABIES IN ANIMALS		
	1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966
UNITED STATES	10,808	6	34	-	47	7	83	-	9	113	1,042
NEW ENGLAND	1,677	_	2		1			1		_	
Maine	86	_		_	1		3	-	-	3	16
New Hampshire	25		_			_			-		
Vermont	4								_	3	1 .6
Massachusetts	295	-	2	1 1	1			[-	10
Rhode Island	124	-	-	_]
Connecticut	1,143	- /	-	-	-	-	3	-	-		
MIDDLE ATLANTIC	413	_ "	5	_		3	20	_	1	10	1.0
New York City	22		3			3	11	1		10	10:
New York, Up-State.	326						3	· -	-	10	
New Jersey	NN					-	3	-	-	10	9
Pennsylvania	65	-	2			-	3	-	1		
AST NORTH CENTRAL	1,307	1	3	-	12	2	15	-	-	13	19
Ohio	177	-		-	3	-	6	-	-	-	10
Indiana	275	-	1	-	3	-	2	-	-	7	4
Illinois	177	1	1	-	5	1	2	-	-	2	1
Michigan	281	-	1	-	-	-	2	-	-	2	1
WISCOUSIU	397	-	-	-	1	1	3	-	-	2	1
EST NORTH CENTRAL	325	1	2	-	3	1	9	-	1	25	30
Minnesota	14	-	-	-	-	-	-	-	-	4	5
Iowa	160	-	-	-	-	-	3	-	-	1	6
Missouri	16	1	2	-	1	-	4	-	_	12	11
North Dakota	76	-	-	-	-	-	-	-	-	-	
South Dakota	26	-	-	-	-	-	-	-	-	5	3
Nebraska	7	-	-	-	-	1	1	-	-	_	-
Kansas	26	-	-	-	2	-	1	-	1	3	1
OUTH ATLANTIC	1,421		8		6		1.5		,	.,	
Delaware	32		°		j °		15	-	6	14	18
Maryland	232					-	1 7		-	-	
Dist. of Columbia	2 2		-	_	-		5		-	-	1
Virginia	440				2	-	6	_	2		12
West Virginia	288				1		1	-	2	6	
North Carolina	19			1 [2		2	_	-	3	2
South Carolina	116		1		1		-		3	_	
Georgia	3	_	3	_	_				1	3	2
Florida	289	-	4	-	_	-	1		-	2	1.
AST SOUTH CENTRAL	1 070		_							_	
	1,879	1	2	-	12	-	7	-	-	12	19
Kentucky Tennessee	449			-	2	-	1	-	-	1	2
Alabama	1,241 112	1	-	-	6	-	4	-	-	9	16
Mississippi	77	-	2	-	4	-	2	-	-	2	"
	′′	_	-	_	-	-	-	-	-	-	
EST SOUTH CENTRAL	1,023	2	8	-	11	-	3	-	1	24	30
Arkansas	2	2	2	-	9	-	-	-	1	-	38
Louisiana	3	-	3	-	1	-	1	-	-	1	17
Oklahoma	74	-	-	-	-	-	1	-	-	16	84
Texas	944	-	3	-	1	-	1	-	-	7	164
OUNTAIN	1,408	1	1	-	1		6	_		7	2.5
Montana	84	-	-	-		-	-	_	_	4	-
Idaho	156	-	-			-	-	-	-		
Wyoming	16	-	-	-	-		-	-	-	-	
Colorado	667	1	1	-	-	_	2	_	_	-	
New Mexico	249			-	_	-	-	-	_	_	
Arizona	81	-	-	-	-	-	1	-	-	2	12
Utah	155	-	-	-	1	-	3	-	-	-	
Nevada	-	-	-	-	-	-	-	-	-	1	
ACIFIC	1,355	-	3	-	1	1	5	_	_	5	74
Washington	450	-] -	-	_	_	-	_	-	_	'.
Oregon	35		-	-	-	-	1	-	-		
California	763	-	3	-	1	-	3	_	-	5	7
Alaska	59	-		-	-	-		:	-	-	1
Hawaii	48	-	-	-	-	ī	ī	-	-	-	

Week No. Table 4. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED APRIL 23, 1966

	All Ca	uses	Pneumonia	Under		All Ca	uses	Pneumonia	Und
Area	A11	65 years	and	1 year	Area	A11	65 years	and	I ye
	Ages	and over	Influenza All Ages	All Causes		Ages	and over	Influenza All Ages	A1 Caus
	700	450	27	31	COUNTY AND AND A	7 000			_
EW ENGLAND:	733 215	458 122	5	5	SOUTH ATLANTIC: Atlanta, Ga	1,290 129	704	60	
Boston, Mass	32	21	3	1	Baltimore, Md	281	63 157	15	
Bridgeport, Conn Cambridge, Mass	30	18		1 1	Charlotte, N. C	58	28	3	
Fall River, Mass	30	25		_	Jacksonville, Fla	73	33	2	
Hartford, Conn	61	39	2	6	Miami, Fla	91	47		
Lowell, Mass	26	17	2	1	Norfolk, Va	54	26	3	
Lynn, Mass	17	12	1	1	Richmond, Va	93	49	2	
New Bedford, Mass	27	13	-	3	Savannah, Ga	33	14	ī	1
New Haven, Conn	54	33	1	-	St. Petersburg, Fla	101	84	7	
Providence, R. I	69	39	7	6	Tampa, Fla	93	65	11	1
Somerville, Mass	8	8	-	-	Washington, D. C	233	113	12	
Springfield, Mass	63	45	5	3	Wilmington, Oel	51	25	2	į .
Waterbury, Conn	30	20	-	1					
Worcester, Mass	71	46	1	5	EAST SOUTH CENTRAL:	612	317	40	1
					Birmingham, Ala	99	44	1	
IDDLE ATLANTIC:	3,682	2,240	191	157	Chattanooga, Tenn	53	26	5	
Albany, N. Y	41	22	3	7	Knoxville, Tenn	45	26	1	
Allentown, Pa	44	26	10	11	Louisville, Ky	121	71	17	
Buffalo, N. Y	195	113	10	11 2	Memphis, Tenn	115	62	8	
Camden, N. J Elizabeth, N. J	51 37	30 23	2	2	Mobile, Ala	37 45	21 23	1 4	
Erie, Pa	37 42	23	5	2	Montgomery, Ala Nashville, Tenn	45 97	23	3	
	68	46	4	7	Nashville, lenn	97	44	3	-
Jersey City, N. J Newark, N. J	74	41	5	3	WEST SOUTH CENTRAL:	1,043	563	55	ĺ
New York City, N. Y	1,871	1,150	100	59	Austin, Tex	30	20	5	1
Paterson, N. J	37	18	1]]	Baton Rouge, La	37	17	2	
Philadelphia, Pa	572	338	16	36	Corpus Christi, Tex	31	20	1	
Pittsburgh, Pa	226	131	9	11	Dallas, Tex	143	85	6	1
Reading, Pa	60	44	6	3	El Paso, Tex	26	13	4	
Rochester, N. Y.*	114	74	13	6	Fort Worth, Tex	76	48	3	
Schenectady, N. Y	23	9	_	2	Houston, Tex	175	79	7	
Scranton, Pa	46	29	2	-	Little Rock, Ark	59	32	6	
Syracuse, N. Y	70	52	2	3	New Orleans, La	182	85	4	
Trenton, N. J	54	25	4	2	Oklahoma City, Okla	82	43	2	
Utica. N. Y	30	23	5	1	San Antonio, Tex	86	50	3	
Yonkers, N. Y	27	18	3	2	San Antonio, Tex Shreveport, La	54	32	5	
ST NORTH CENTRAL:	2,782	1,556	135	155	Tulsa, Okla	62	39	7	
Akron, Ohio	71	44	-	1	MOUNTAIN:	444	253	25	
Canton, Ohio	52	27	1	2	Albuquerque, N. Mex	43	23	8	
Chicago, Ill	878	484	51	61	Colorado Springs, Colo.	16	9	1	
Cincinnati, Ohio	142	92	5	7	Oenver, Colo	124	79	9	1
Cleveland, Ohio	201	107	2	10	Ogden, Utah	13	9	-	
Columbus, Ohio	127	69	5	6	Phoenix, Ariz	115	59	3	
Oayten, Ohio	81	47	1	6	Pueblo, Colo	21	15	1	
Detroit, Mich Evansville, Ind	369	206	24	15	Salt Lake City, Utah	54	30	1	
Evansville, Ind	32	17	4	4	Tucson, Ariz	58	29	2	
Flint, Mich	50	32	2	1				į .	1
Fort Wayne, Ind	43	25	4	3	PACIFIC:	1,664	1,000	50	}
Gary, Ind	39	19 34	6	2	Berkeley, Calif *	18	12	-	1
Grand Rapids, Mich	58		7 0		Fresno, Calif	60	32	-	
Indianapolis, Ind	199	99 17	8 -	14	Glendale, Calif	29	22	1	
Madison, Wis Milwaukee, Wis	111	64	5	8	Honolulu, Hawaii Long Beach, Calif	40 77	16	3	
Peoria, Ill	32	17	I	8	Los Angeles, Calif	448	281	13	
Rockford, Ill	39	18	4	6	Oakland, Calif	448 99	50	13	
South Bend, Ind	30	18	3	0	Pasadena, Calif	49	33	1	
Toledo, Ohio	121	71	2	3	Portland, Oreg	134	75	4	
Youngstown, Ohio	74	49	-	i	Sacramento, Calif	59	37	i	
					San Oiego, Calif	98	48	2	
ST NORTH CENTRAL:	942	614	50	46	San Francisco, Calif	213	125	5	
Des Moines, Iowa	51	40	2	1	San Jose, Calif	37	22	1	
Ouluth, Minn	24	16	1	1	Seattle, Wash	190	114	12	
Kansas City, Kans	53	30	5	5	Spokane, Wash	64	51	1	
Kansas City, Mo	135	92	6	1	Spokane, Wash Tacoma, Wash	49	38	6	
Lincoln, Nebr	33	23	2	1			1		
Minneapolis, Minn.*	132	89	4	7	Total	13,192	7,705	631	
Omaha, Nebr	70	49	3	5					
St. Louis, Mo	289	167	12	14		mulative To			
St. Paul, Minn	102	72	6	6	including reports	d correcti	ions for p	revious we	eks
Wichita, Kans	53	36	9	5					
					All Causes, All Ages			212,9	
					All Causes, Age 65 and c	ver		124,0	132
					Pneumonia and Influenza,			10,5	

UNIVERSITY OF FLORIDA 3 1262 08863 6930

INTERNATIONAL NOTES-QUARANTINE MEASURES

Immunization Information for International Travel-1965-66 edition-Public Health Service Publication No. 384

Page 15-Plague Paragraph 2, Line 4

Delete

"The complete standard course need not be repeated at that time."

Insert

"Anyone who has had a previous vaccination against plague should receive two injections spaced at a thirty day interval. Children may be vaccinated against plague at the age of three months."

THE MORBIOITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 15,600, IS PUBLISHED AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

CHIEF, COMMUNICABLE DISEASE CENTER CHIEF, EPIOEMIOLOGY BRANCH ACTING CHIEF, STATISTICS SECTION

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F.R.C. P.E.

IN AGOITON TO THE ESTABLISHED PROCEQUIES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE GISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING DUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST OF THE PROPERTY OF THE PROPERT

THE EDITOR
MORBIOITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE COC BY THE INDIVIOUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATUROAY: COMPILEO OATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FINDAY.

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